

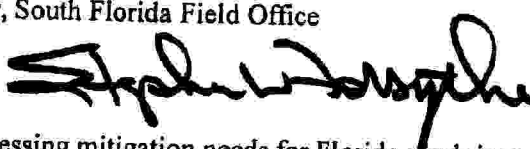


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**MEMORANDUM**

**To:** Field Supervisor, Jacksonville Field Office  
Field Supervisor, South Florida Field Office

**From:** State Supervisor 

**Subject:** Guidance for assessing mitigation needs for Florida scrub-jays

This guidance is to be used when assessing minimization/mitigation needs for the Florida scrub-jay relative to applications for Incidental Take Permits for Florida scrub-jays. The Service will pursue similar "minimization" goals for scrub-jay conservation in section 7 actions, subject to the ultimate determination of acceptability by the action agency. This guidance is intended to provide interim direction until the scrub-jay recovery plan is revised.

The primary underlying principle embraced by this guidance is that future mitigation efforts by the Service enhance existing scrub-jay populations occurring on publicly and privately protected lands. To evaluate conservation opportunities for scrub-jays under this guidance, the Service assessed multiple data sources to determine current and expected habitat availability, and current and expected scrub-jay distribution. Results of a spatially-explicit model in combination with published metapopulation data, GIS coverages of public lands and scrub habitat, published and unpublished biological data, and working knowledge of localized scrub-jay populations were used to identify and delineate areas within which future mitigation needs would result in the highest conservation benefit to scrub-jays.

These analyses resulted in the delineation of mitigation service areas (MSAs) throughout the range of the species (Figure 1). MSAs encompass areas that: (1) contain one or more public or protected private lands that, when combined, have one or more populations of scrub-jays that are anticipated to persist long-term, (2) have at least one population with a minimum of 10 pairs of scrub-jays, and (3) minimize the potential for demographic fragmentation. To maximize the effectiveness of this guidance, impacts to scrub-jays within MSAs should be mitigated within the

same MSA. Impacts to scrub-jays occurring outside of a defined MSA may be mitigated to the closest MSA.

The overall procedures are as follows:

A. General Mitigation Strategies (in order of preference)

1. Expand existing preserves and protect and manage occupied and unoccupied habitat that is contiguous with managed public or private lands where the extant population of scrub-jays is viable.
2. Protect and manage occupied and unoccupied habitat within 2 miles of protected and managed occupied habitat where the extant population of scrub-jays is viable, provided proposed mitigation lands are sufficient to support at least one family of scrub-jays. Ensure that dispersal barriers (such as open water exceeding 200 yards, densely urbanized areas, heavily canopied pine forests or plantations, open pasture, or croplands) do not predominate the landscape between mitigation sites and occupied scrub-jay habitat. Composition of the habitat proposed for mitigation should maximize continuity of habitat and minimize the edge effect of the suitable or restorable habitat. In this respect, a circular parcel of land with contiguous suitable or restorable habitat would be more beneficial (biologically), whereas a linear strip of land with interspersed patches of suitable and unsuitable habitat would be of low benefit.
3. Protect and manage occupied and unoccupied habitat that is within 5 miles of protected and managed occupied scrub-jay habitat where the extant population of scrub-jays is viable, provided proposed mitigation lands are sufficient to support at least one family of scrub-jays. Ensure that, in addition to the dispersal barriers identified above, other barriers (such as heavily canopied suburbs, unbroken citrus groves, treeless or nearly treeless suburbs, or pine flatwoods) do not predominate the landscape between mitigation sites and occupied habitat. The relative biological benefit of mitigation lands with respect to its composition should be assessed as described above.

B. Determine Population Viability

Ensure that a minimum of 10 families of demographically connected scrub-jays are present or will be present following mitigation **OR** sufficient unoccupied but restorable scrub-jay habitat (unoccupied habitat) is, or will be (after restoration, as set forth in the proposed action and concurred to by the Service) available to support at least 10 scrub-jay families. Viable groups of scrub-jays require about 200 acres of scrub habitat which may be contiguous or composed of patches of scrub habitat at least 20 acres in size. The spatial orientation of habitat patches must not lead to demographic isolation, as described in A.2

and A.3 above, and must provide for the successful dispersal of scrub-jays between habitat patches.

C. Determine Demographic Priority

Demographic considerations in selecting mitigation locations within the MSA are described in order of preference below:

1. Mitigate onsite if conditions in B. (above) exist or can be achieved through management.
2. Mitigate offsite but within affected viable population, as defined in B.
3. Mitigate offsite to the nearest viable population, as defined in B.

D. Determine Habitat Mitigation Need (in order of preference)

1. Purchase (or otherwise acquire fee title) two acres of occupied habitat for each acre of affected occupied habitat, or purchase three acres of unoccupied habitat for each acre of affected occupied habitat<sup>1</sup>. The Service requires a higher ratio in the case of restored habitat to address the uncertainties inherent in habitat restoration and recolonization by scrub-jays, and the temporal loss of habitat. All acquisitions must be accompanied by a cash endowment sufficient to provide perpetual management of preserved lands. If initial restoration of the preserved area is required to make the habitat suitable for occupation by scrub-jays, then the cost of that restoration will be added to the endowment.
2. Secure perpetual conservation and land management agreement on sufficient lands to achieve mitigation needs identified in D.1. above. Holder of any agreement must be approved by the Service.
3. Deposit funding into the Florida Scrub-jay Conservation Fund sufficient to achieve mitigation needs identified in D.1., plus five percent of total mitigation cost to cover administrative overhead.

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<sup>1</sup> During the process of drafting the Brevard County Scrub Conservation and Development Plan, certain “core” areas were designated as essential to long-term survival of Florida scrub-jays within that county. As a result, these core areas are more beneficial (biologically speaking) to scrub-jays than other areas within the county. Impacts to core areas within Brevard County, therefore, will be mitigated by purchase or otherwise acquiring fee title to four acres of occupied habitat for each acre of occupied habitat affected and will be located only in areas included in the draft reserve design.

4. Purchase/acquire fee title (at a ratio of five acres of habitat for each acre of affected occupied habitat) lands adjoining publicly-owned occupied or unoccupied habitat to provide buffer from adjacent urban activities and to buffer adjacent urban areas from land management activities (e.g. prescribed fire).
- 5a\*. On public lands, restore five acres of suitable unoccupied habitat for each acre of affected occupied habitat **AND** provide sufficient funding to ensure perpetual management of the restored habitat.
- 5b\*. On public lands, provide sufficient funding to perpetually manage five acres of occupied scrub-jay habitat for each acre of affected occupied habitat.

\* These alternatives are likely to result in no or little net benefit and as a result should be considered only as a last resort, and should result in actions that would not otherwise be implemented by the public agency tasked with managing such public lands.

#### E. Applicant Protocols

1. A through D above will be discussed and reviewed with applicants as soon as sufficient information is provided to determine the extent of project impacts.
2. The Service will provide the applicant a list of mitigatory requirements immediately following initial discussion of a project. Written updates will be provided if the project changes scope.
3. If D.3. applies, notify applicant that mitigation cost will be based on the cost to conduct work at the most appropriate mitigation site as determined above. Field offices will maintain written cost estimates on file for applicant review as requested. Mitigation cost will be obtained primarily through assessments of comparative sales of land within the scrub-jay group (as defined in B above) to which mitigation will be directed. Where such data are lacking, broader assessments of comparative sales data may be needed. These values should be updated as necessary considering changes in land values and inflation. Mitigation cost estimates will be based on Service documents at the time of final application for an incidental take permit, unless the applicant can demonstrate comparative land sales data resulting in a lower mitigation cost.
4. Upon request, the Service shall provide the applicant copies of modeling software and associated data used by the Service in making determinations in A through D above, provided the release of information does not violate copyright or other legal instruments that may protect such information.

This guidance should be updated jointly by your respective staffs as needs and new information dictate.

